20

We claim:

1. An embolus extractor, comprising:

an elongate shaft having a proximal end and a distal end;

first and second struts, each strut having a proximal end and a distal end coupled to the distal end of the shaft; and

the struts having a first position and a second position, wherein in the first position, the distal ends and the proximal ends of the struts are spaced at a first distance, and in the second position the distal ends and the proximal ends of the struts are spaced at a second distance, the second distance being less than the first distance.

- 2. An embolus extractor in accordance with claim 1, further comprising a sleeve slidably coupling the distal ends of the struts to the shaft.
 - 3. An embolus extractor in accordance with claim 1, further comprising a sleeve slidably coupling the proximal ends of the struts to the shaft.
 - 4. An embolus extractor in accordance with claim 1, wherein in the first position, the struts are disposed generally parallel to and adjacent the shaft.
 - 5. An embolus extractor in accordance with claim 1, wherein in the second position, a proximal portion of the first and second struts define a generally circular mouth.
 - 6. An embolus extractor in accordance with claim 5, wherein the struts extend generally distally from the mouth to define a generally distally tapering body.
 - 7. An embolus extractor in accordance with claim 5, wherein the proximal portion of the struts forming the mouth extend from the shaft at between 45° to 90° the length of the shaft.

- 8. An embolus extractor in accordance with claim 7, wherein the proximal portions of the struts forming the mouth extend from the shaft at between 60° to 90° to the length of the shaft.
- 9. An embolus extractor in accordance with claim 8, wherein the proximal portions of the struts forming the mouth extend from the shaft at between 80° to 90° to the length of the shaft.
 - 10. An embolus extractor in accordance with claim 1, wherein the struts include a shape memory metal.
- 11. An embolus extractor in accordance with claim 10, wherein the shape10 memory metal includes a NiTi alloy.
 - 12. An embolus extractor in accordance with claim 1, further comprising a third strut coupled to the shaft, the third strut having a transverse cross sectional area; wherein the first and second struts each have a transverse cross sectional area greater than the transverse cross sectional area of the third strut.
 - 13. The embolus extractor in accordance with claim 1, wherein the first and second struts form at least a portion of a generally circular mouth.
 - 14. The embolus extractor in accordance with claim 13, wherein the first and second struts can move independently of each other.
- The embolus extractor in accordance with claim 1, wherein the struts canrotate about the elongate shaft.
 - 16. The embolus extractor in accordance with claim 1, wherein the struts can translate at least in part along the elongate shaft.

15

- 17. The embolus extractor in accordance with claim 1, wherein at least strut includes a radiopaque material.
 - 18. An embolus extractor, comprising:
 an elongate shaft having a proximal end and a distal end;
- a first strut having a proximal end and a distal end, the proximal end of the strut being coupled to the shaft; and

the strut having a first position and a second position, wherein in the first position, the distal end and the proximal end of the strut are spaced at a first distance, and in the second position, the distal end and the proximal end of the strut are spaced at a second distance being less than the first distance.

- 19. An embolus extractor in accordance with claim 18 wherein in the first position, the strut is disposed generally parallel to the shaft.
- 20. An embolus extractor in accordance with claim 18, wherein in the second position, a proximal portion of the strut defines a generally circular mouth.
- 21. An embolus extractor in accordance with claim 20, wherein the strut extends generally distally from the mouth to define a generally distally tapering body.
- 22. An embolus extractor in accordance with claim 20, wherein the proximal portion of the strut forming the mouth, extends from the shaft at between 45° to 90° to the length of the shaft.
- 23. An embolus extractor in accordance with claim 22, wherein the proximal portion of the strut forming the mouth, extends from the shaft at between 60° to 90° to the length of the shaft.

15

20

- 24. An embolus extractor in accordance with claim 23, wherein the proximal portion of the strut forming the mouth, extends from the shaft at between 80° to 90° to the length of the shaft.
- 25. An embolus extractor in accordance with claim 18, wherein the strut5 includes a shape memory metal.
 - 26. An embolus extractor in accordance with claim 25, wherein the shape memory metal includes a NiTi alloy.
 - 27. An embolus extractor in accordance with claim 18, further comprises a second strut coupled to the shaft, the second strut having a transverse cross sectional area; wherein the first strut has a transverse cross sectional area greater than the cross sectional area of the second strut.
 - 28. A method of withdrawing an embolus extractor, comprising the steps of:
 providing an embolus extractor having elongate shaft, having a proximal end and
 a distal end and a plurarity of struts disposed at the distal end of the elongate shaft, the
 struts and at least a portion of the elongate shaft being disposed in a patient's vasculature,
 an embolus contained by the strut;

providing a micro catheter having a distal end;
advancing the micro catheter over at least a portion of the elongate shaft;
collapsing the struts at least in part at the distal end of the micro catheter; and
moving the micro catheter and embolus extractor together proximally.

29. The method in accordance with claim 28, further comprising the steps of:

providing a radiopaque marker at the distal end of the micro catheter, and providing a radiopaque marker on the embolus extractor; and

positioning the markers relative to each other to determine the relative position of the micro catheter and embolus extractor.